

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

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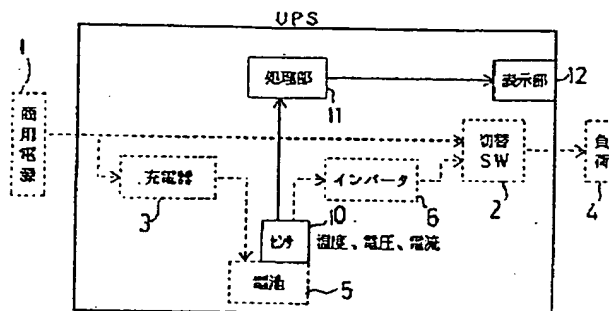
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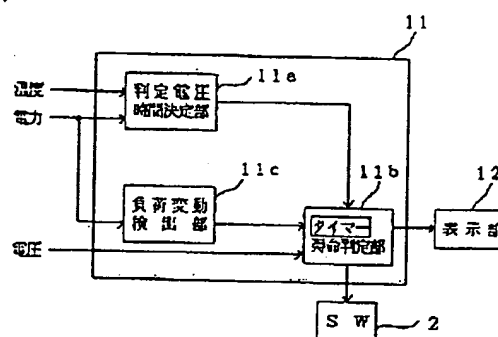
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TITLE : JUDGING DEVICE FOR LIFE OF BATTERY

(A)



(B)



ABSTRACT : PURPOSE: To provide a battery life judging device which can judge the life of a battery without influence caused by service conditions such as load electric power and ambient temperature and the state of the battery.

CONSTITUTION: A sensor 10 composed of sensor sections which measure ambient temperature, terminal voltage and output current is provided near a battery 5, and measurement data detected by each sensor section are sent to a processing section 11, and a judging time for judging the life of the battery on fuzzy reasoning and voltage drop rate to be a criterion value after the judging time are obtained in a judging voltage-time deciding section 11a and set up in a life judging section 11b, which issues a fixed false service interruption signal to a change-over switch 2 to cause initial discharge for activating the battery, and then makes the battery electric capacity recover and discharge again. The time when the terminal voltage drop rate of the battery in the course of the true discharge attains, a criterion voltage drop rate is detected by a timer in the judging section, and the above time is compared with the judging time to judge the propriety of the life of the battery, and the result of judgement is output to a display section 12.

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